

*PM-1 PROJECT DESCRIPTION  
AND STATUS*

*MODIS SCIENCE TEAM MEETING*

*COLLEGE PARK, MD*

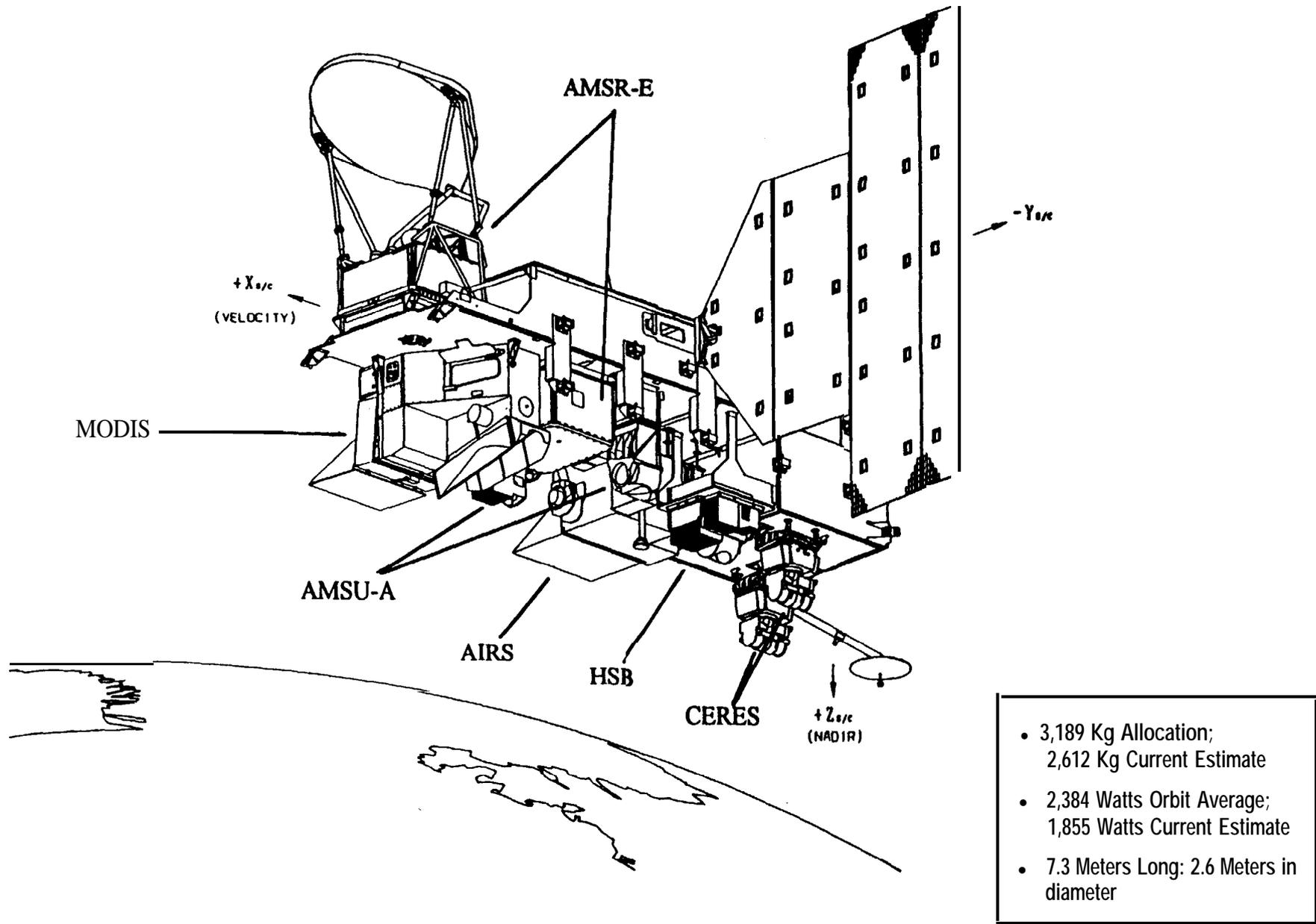
OCTOBER 24, 1997

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EOS PM PROJECT  
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## *OVERVIEW*

- PM PROJECT IS 18 MONTHS INTO A 54 MONTH DEVELOPMENT EFFORT
- PROJECT IS IN GOOD SHAPE ON TECHNICAL AND SCHEDULE; COST RESERVES HAVE BEEN REDUCED
- SPACECRAFT PDR HELD APRIL 1997. RFAs CLOSED OUT. CDR PLANNED FOR JUNE 1998
- 5 OF 6 ICDs SIGNED (MODIS WAS FIRST)
- CURRENT INSTRUMENT DELIVERY DATES
  - AIRS                    DECEMBER 1998
  - AMSU                    JULY 1998
  - HSB                      JULY 1999
  - CERES (2)                DECEMBER 1998
  - MODIS                    SEPTEMBER 1998
  - AMSR                     SEPTEMBER 1999
- ADDRESSING I&T AND FLIGHT OPERATIONS WITH TRW IN NOVEMBER 1997

# EARTH OBSERVING SYSTEM (EOS) PM



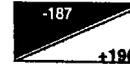
## *MODIS FM-I STATUS*

- REVISED ETC PROPOSAL RECEIVED FROM SBRS
- FM-1 SUBSYSTEMS IN ASSEMBLY/TEST (SEE FOLLOWING CHART)
- ADDRESSING
  - SWIR LIGHT LEAK REPAIR
  - TEST FLOW MODIFICATIONS
  - SCAN MIRROR REPLACEMENT (UNDER STUDY)
- FM-I SCHEDULED DELIVERY DATE IS SEPTEMBER 1998

# MODIS INSTRUMENT (EOS-PM)

FM #1 INSTRUMENT CONTRACT DELIVERY DATE (EOS-PM):  
PM SPACECRAFT CONTRACTOR NEED DATE (EOS-PM):

12/1/97



SDSM Completion, AEM Completion, Sunshade Decision, & Instrument Integration

PFM INSTRUMENT CONTRACT DELIVERY DATES (EOS-AM):  
AM SPACECRAFT CONTRACTOR NEED DATE (EOS-AM):

10/31/96  
3/15/97  
1997

## INSTRUMENT SUBSYSTEMS

### PFM INSTRUMENT (AM-1)

Instrument Assy/Test

**AUG**



Instrument Delivered 5/17/97

**SEP**



Instrument Delivered 5/17/97

**OCT**



Instrument Delivered 5/17/97

### FLIGHT SOFTWARE

AM Flight Software



Flight Software Delivered 11/22/96



Flight Software Delivered 11/22/96



Flight Software Delivered 11/22/96

### GROUND SUPPORT EQUIPMENT

STE #2



Completed 5/6/97



Completed 5/6/97



Completed 5/6/97

### EM #1 INSTRUMENT (PM-1)

Optical Bench Assy



Completed



Completed



Completed

SWIR/MWIR Objectives



Completed



Completed



Completed

LWIR Objective



LWIR Objective Complete 9/27/96



LWIR Objective Complete 9/27/96



LWIR Objective Complete 9/27/96

NIR Objective



NIR Objective Complete 6/21/96



NIR Objective Complete 6/21/96



NIR Objective Complete 6/21/96

Telescope



Completed 4/2/97



Completed 4/2/97



Completed 4/2/97

Focal Plane Assy



All Focal Plane Assy's Were Completed 3/4/96



All Focal Plane Assy's Were Completed 3/4/96



All Focal Plane Assy's Were Completed 3/4/96

Radiative Cooler Assy



Radiative Cooler Completed 9/27/96



Radiative Cooler Completed 9/27/96



Radiative Cooler Completed 9/27/96

On Board Calibrator Assy



-176 SDSM



-176 SDSM



-176 SDSM

SDSM



-176 Fold Mirror Re-Work Procurement



-182 Replace Fold Mirror



-187 Post-Vibe Performance Testing - SDSM

SRCA



SRCA Complete 6/17/97



SRCA Complete 6/17/97



SRCA Complete 6/17/97

Scan Mirror Assy



-183 Scan Mirror Assy Balance



Scan Mirror Complete 7/30/97



Scan Mirror Complete 7/30/97

Main Electronics Module



-187 Final Assy of Module



-187 Final Integration Tests-MEM



MEM Complete 9/22/97

Analog Electronics Module



-184 Assy & Wiring of Modules



-179 Assy & Wiring of Modules



-187 FAM/CLAM Temperature Test

Struct., Blankets & Doors



-167 Procurement of MLI Blankets



-169 Sunshade Decision



-187 Sunshade Decision

FM1 Integration & Test



-187 AEM Availability



-187 MEM Availability



-187 Verify Optical Bench Alignment

**Legend**

FLOAT ASSESSMENT RELATIVE TO CONTRACTUALLY AGREED TO DELIVERY DATE




FLOAT ASSESSMENT RELATIVE TO SPACECRAFT CONTRACTOR AGREED TO DELIVERY DATE

**COLOR CODES**

**GREEN** >10 WORKING DAYS FLOAT

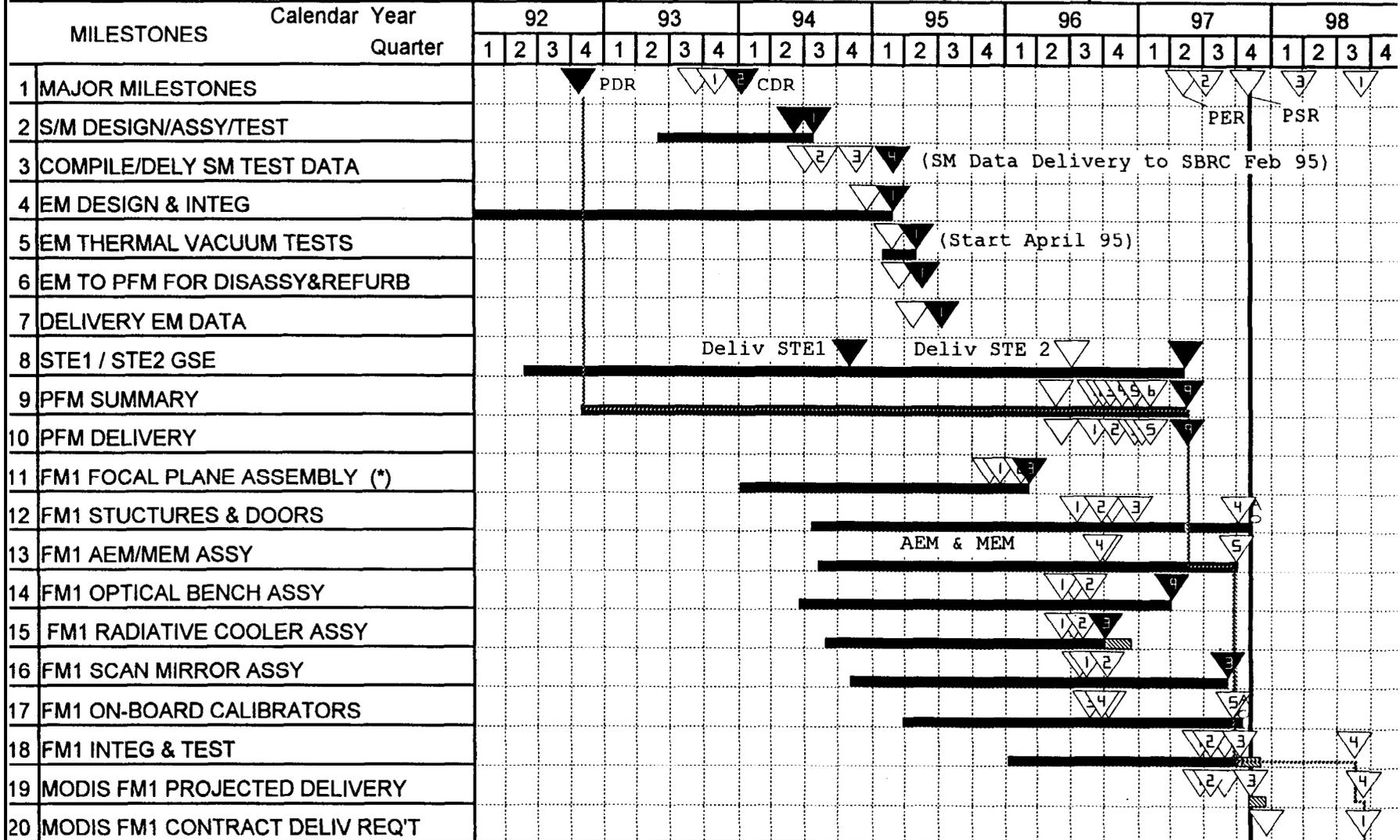
**YELLOW** 0 TO +10 WORKING DAYS FLOAT

**RED** <0 WORKING DAYS FLOAT

GODDARD SPACE FLIGHT CENTER  
 APPROVAL PECORI  
 ACCOMP. ANDERSON

**MODERATE RES IMAGER SPECT (MODIS)  
 PM1 MASTER SCHEDULE  
 (LEVEL 2)**

ORIG. APPVL. 02/15/93  
 LAST CHANGE 02/29/96  
 STATUS AS OF 10/31/97



NOTE: \* SCHEDULE REVISED ON 10 JAN 95 TO REFLECT SBRC ACCELERATED SCHEDULE.

Legend: ▼ - Supporting    ◀ - HQTR Controlled    ⊞ - Latest Comp. Date    ⊕ - Changed    Rebaseline Date: / /  
 ▨ - Slack    ..... Critical Path    ⊡ - Program Master Milestones    ⊙ - Mgt. Assessed Comp. Date

# SUMMARY

- SPACECRAFT IN GOOD SHAPE
- INSTRUMENT ICDs SIGNED OFF (EXCEPT FOR HSB)
- MODIS SWIR AND I&T ISSUES BEING ADDRESSED
- MODIS FM-1 DELIVERY SCHEDULED FOR SEPTEMBER 1998